

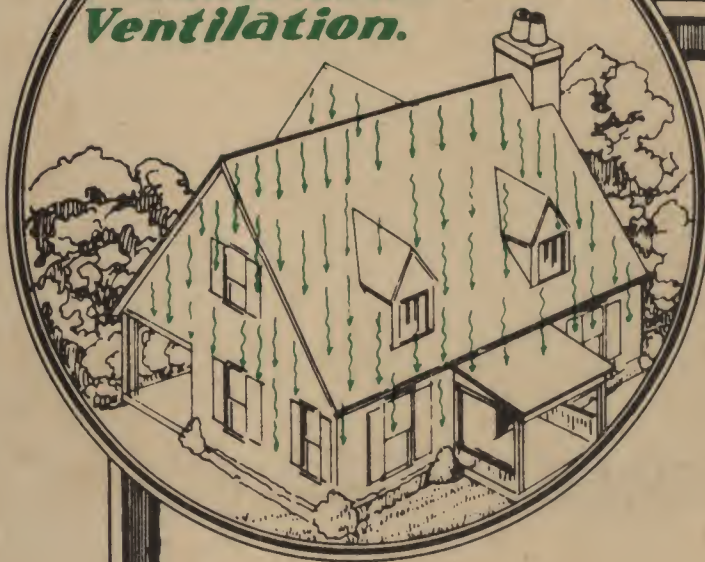
Poly SM



FROM
WEAKS SUPPLY COMPANY, LTD.
MILL, PLUMBING, ELECTRICAL
PAINT & BUILDERS' SUPPLIES
MONROE, — — LOUISIANA
"WE SHIP TO-DAY"

THE SHREVEPORT ENGINEERING CO., INC.
1241 DALZELL STREET, SHREVEPORT, LA.

a *heat* trap
without *Attic*
Ventilation.



heat is carried
out of the
ATTIC AND ROOMS



THE
HOME COOLED
BY
ATTIC VENTILATION



QUESTIONS AND ANSWERS ABOUT COMFORT COOLING THROUGH ATTIC VENTILATION

How does Comfort Cooling make you cool?

By increasing evaporation of moisture on the entire body and on the clothing. This method of increasing comfort in hot weather is Nature's way of cooling.

Does Comfort Cooling lower the temperature in a home?

Yes. But the real benefits of Comfort Cooling are felt on the human body. Bringing in cool outside air in the evening, for example, will lower the room temperature a few degrees, but the cooling effect gained by the increased air movement in the room will give a far greater degree of comfort than is indicated by a thermometer.

Why is Comfort Cooling installed in the attic?

Primarily to get it out of sight and out of hearing. By placing the equipment in the attic, the heat that is generated by the sun beating on the roof is blown out. At the same time the heat is drawn out of the rooms in the home.

Is Comfort Cooling equipment noiseless?

Almost entirely, when installed by those familiar with the problem. The only evidence of the equipment is a low hum, not unlike an ordinary electric fan in the next room.

Does the equipment need any attention?

Practically none. A little oil once or twice a year should be sufficient. There is no complicated equipment to get out of order, and the installation should last as long as the house itself.

Will Comfort Cooling make my house dustier?

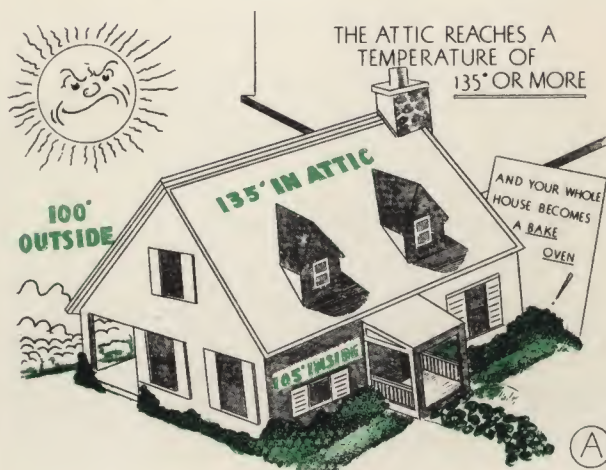
No. Instead, Comfort Cooling will enable you to keep your house cleaner. The strong current of air doesn't allow dust to settle, and carries it on through the house. If you are away from home during the day, you can leave the house closed up tight to keep out dust, and on returning in the evening, open the windows and let the Comfort Cooling equipment draw out in a few minutes the hot air that has accumulated during the day.

Is Comfort Cooling injurious to health?

No. The cooling effect is entirely natural, and therefore is healthful. Only pure, fresh outside air is used to give the natural cooling effect.

Can anyone install Comfort Cooling systems?

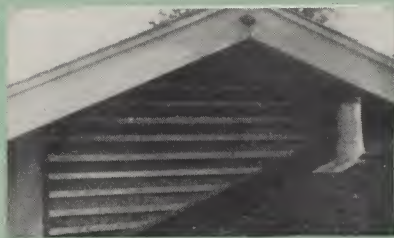
Not satisfactorily. The success of Comfort Cooling depends almost entirely on the way it is installed. A thorough knowledge of air movement and experience in setting up Comfort Cooling installations is necessary.



COMFORT • COOLING



BAR-BROOK FANS ARE IN EVERY TYPE OF HOME, COMMERCIAL OR INDUSTRIAL BUILDING FOR COMFORT COOLING





BAR-BROOK VENTILATORS

Are tested in accordance with the Standard Test Code as adopted by the American Society of Heating and Ventilating Engineers and the NEMA.

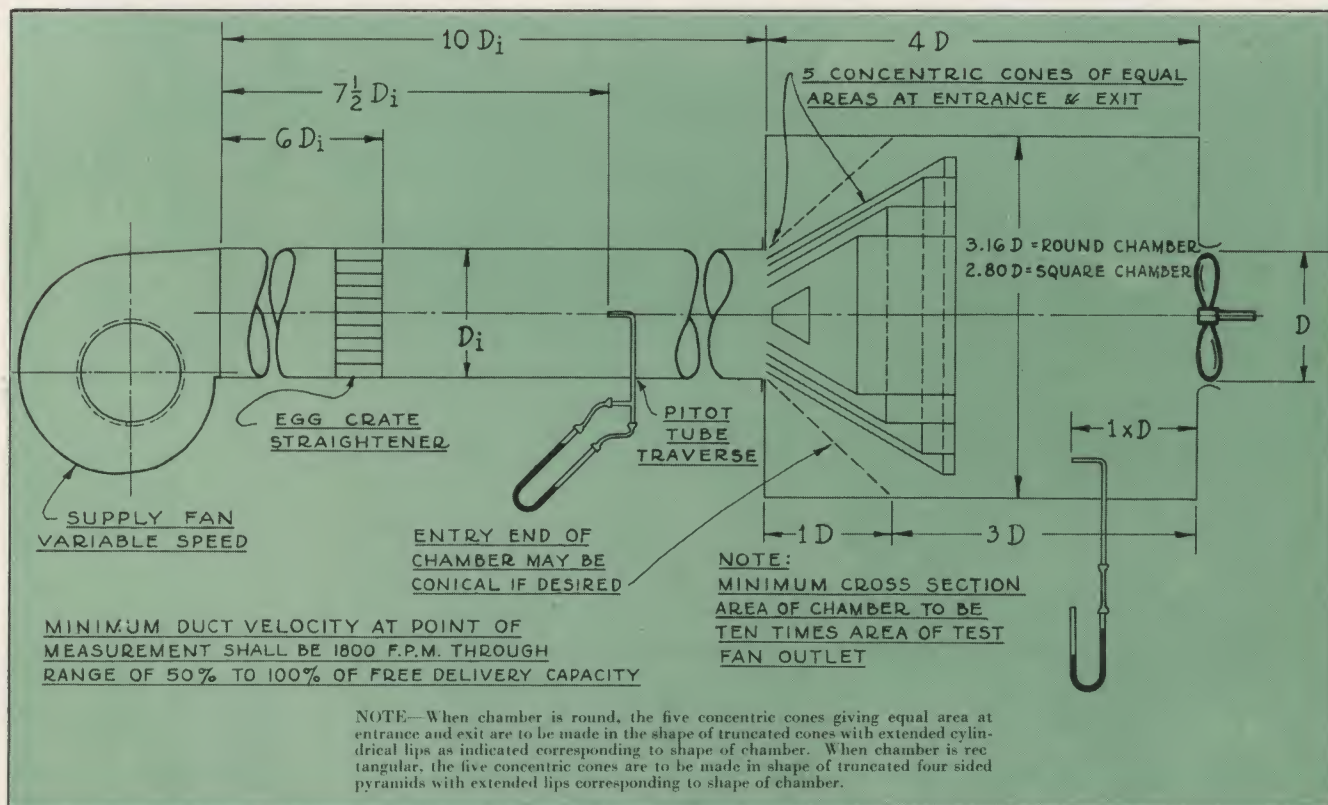
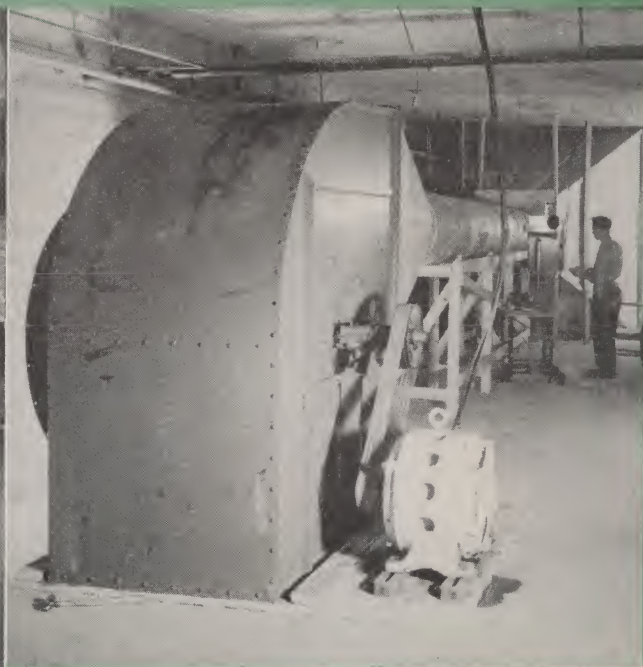


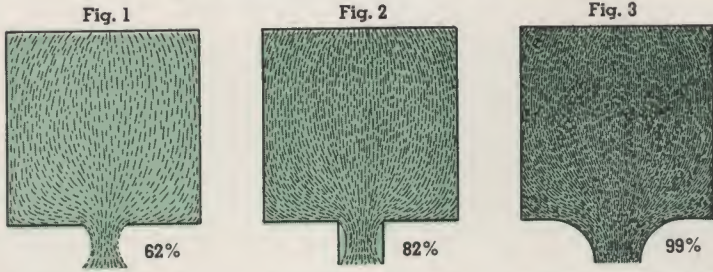
Fig. 15—Diagram of standard test set-up for disc and propeller Fans





BAR-BROOK Offers the Utmost in Quietness and Efficiency Through the Use of Modern Scientific Designing

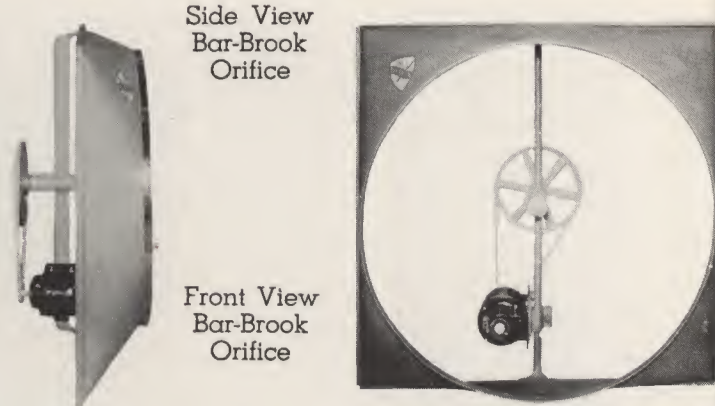
Streamlined Air Inlet



The action of the air being forced through this square edged outlet, without nozzle (which is the same sized opening as in Figs. 2 and 3) is such that the stream contracts to 62% of the area of the opening, thus cutting down the flow to this extent.

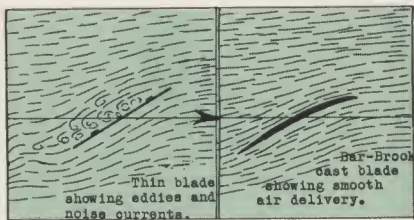
A cylindrical guide or nozzle has been added to figure 2, the area of the outlet remaining the same as in Fig. 1. This nozzle decreases the contraction of the air and allows the flow to be increased to 82%.

Fig. 3 has same outlet area as Fig. 1 and 2, and the flow has been increased to 99% by the use of a streamlined inlet.

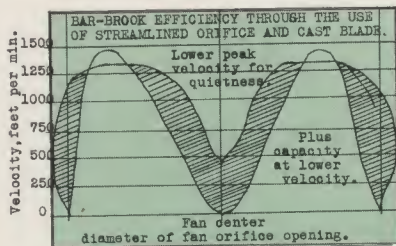


Thick section cast aluminum blades for smooth air delivery quietness and strength.

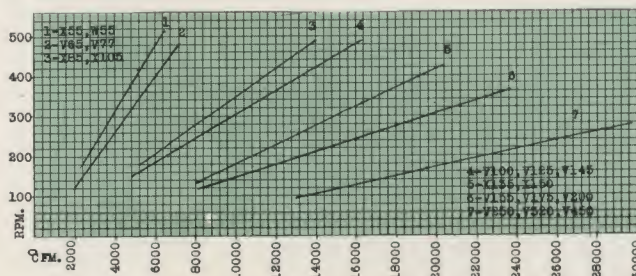
Showing strength of V Model, cast aluminum alloy blades. Light, strong, evenized air delivery.



BAR-BROOK evenized air delivery eliminates the noise from high velocities while making use of the largest possible amount of the orifice opening.



Lower Value
Fan
Bar-Brook
Evenized
Air Flow
Model V Fan

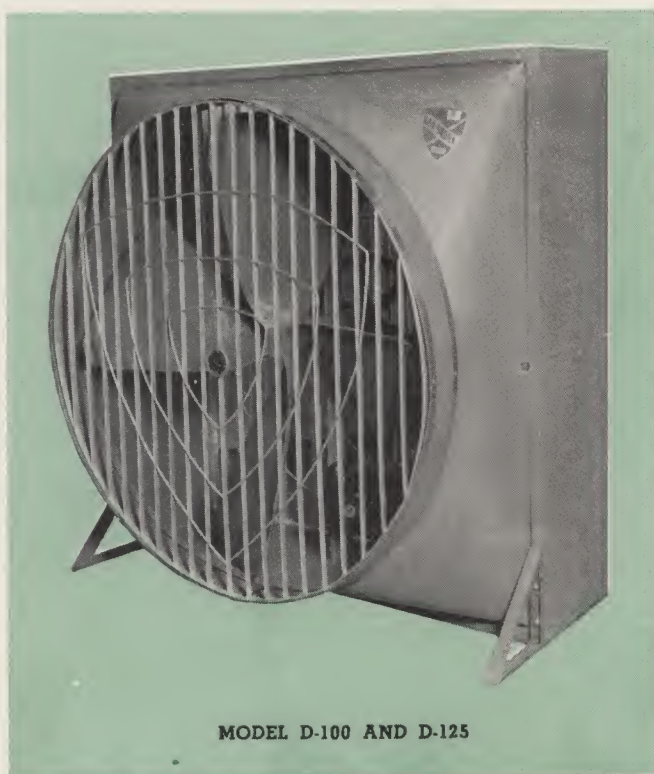


Showing relation of speed to capacities on Bar-Brook Ventilators.



COMFORT

COOLING



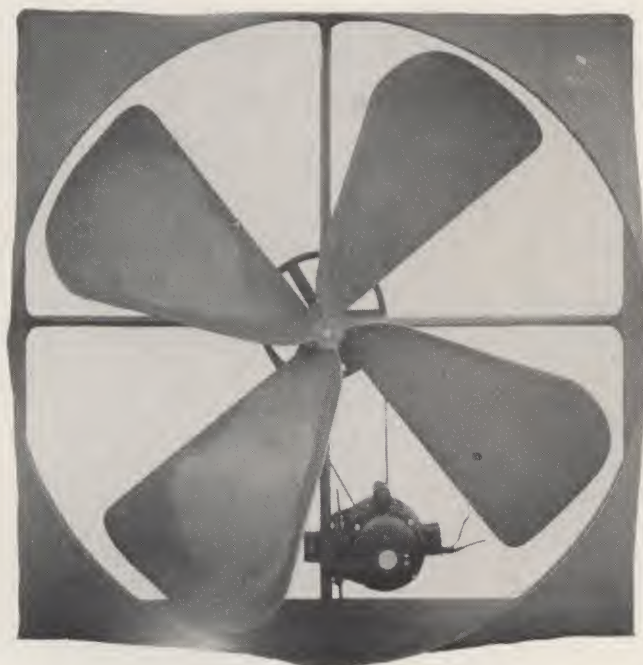
Modern Designing with BAR-BROOK
LEADS THE FIELD OF COMFORT COOLING

Complete capacity and price ranges. Above, shown on models D-100 and D-125 beautifully finished in baked brown wrinkle, trimmed in chrome and aluminum, steel case, with or without front and rear grills. Automatic doors, wood-canvas-suction box corrector, ball bearings, cast aluminum blades, streamlined venturi, Thermal overload protection, floating rubber mountings and all features of the modern attic ventilator.

**ALL BAR-BROOK FANS HAVE GUARANTEED CAPACITIES IN ACCORDANCE
WITH THE STANDARD TEST CODE**



STREAMLINE MODEL-V-VENTILATORS



MODEL V-175
Capacities 6500 to 25000 C.F.M.

SILENT—STREAMLINE—MODEL V

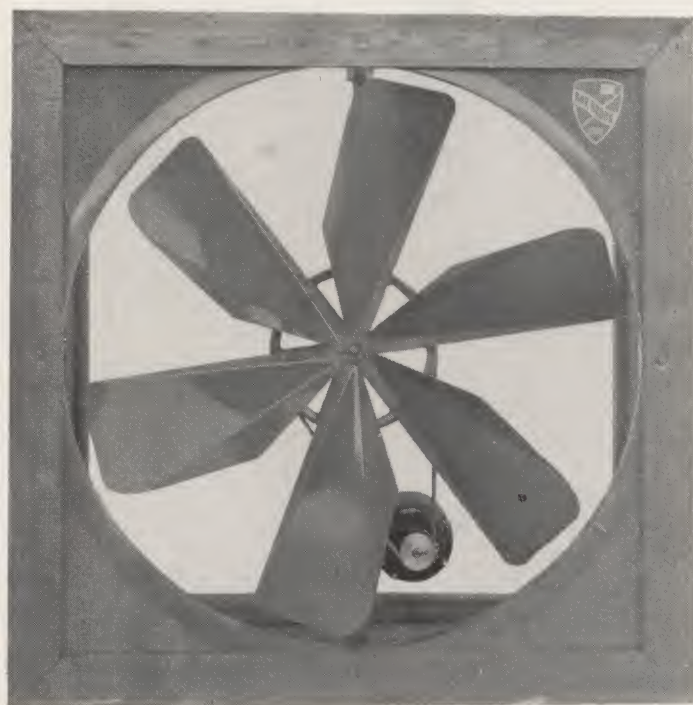
- 1 **Lifetime**—cast aluminum alloy blades—Evenized air velocity.
- 2 **Sealed**, rubber mounted, ball-bearings, with patented cam-lock collar. Also interchangeable bronzoil bearings.
- 3 **Streamlined** orifice opening and framing.
- 4 **Thermal overload** protection on motor.
- 5 **Simplified installation** — using square—suction boxes.
- 6 **Four Point** Sound insulation.
- 7 **Guaranteed Ratings.**
- 8 A capacity to fit every job.
- 9 **High efficiency** gives low operating cost.
- 10 Available with or without steel cases, automatic doors, steel grills, front and rear and two models in complete package units.
- 11 Thousands in operation in all type installation.

Model No.	Capacity CFM	H. P.	RPM	Shipping Weight	Outside Dimensions in Mounting		
					Height	Weight	Depth
V-65	6500	1/4	435	100 pounds	39 1/4"	39 1/4"	21"
V-100	10000	1/4	295	150 pounds	47 1/4"	47 1/4"	21"
V-125	12500	1/3	375	160 pounds	47 1/4"	47 1/4"	21"
V-155	15500	1/3	235	190 pounds	55 1/4"	55 1/4"	28"
V-175	17500	1/2	265	200 pounds	55 1/4"	55 1/4"	28"
V-250	25000	3/4	210	320 pounds	67 1/4"	57 1/4"	34"
MODEL V—COMMERCIAL FANS COMMERCIAL—NO. 15—LEVEL							
V-77	7700	1/3	540	110 pounds	39 1/4"	39 1/4"	21"
V-145	14500	1/2	435	160 pounds	47 1/4"	47 1/4"	21"
V-200	20000	3/4	305	210 pounds	55 1/4"	55 1/4"	28"
V-320	32000	3	375	390 pounds	67 1/4"	67 1/4"	34"
V-450	45000	5	430	475 pounds	67 1/4"	67 1/4"	34"

GUARANTEED TWO YEARS



MODEL X ECONOMY VENTILATORS



MODEL X-105;
MODELS X-85, 105, 135, 150

Now! Bar-Brook Model X Economy Ventilators bring the comforts of Attic Ventilation within the reach of everyone.

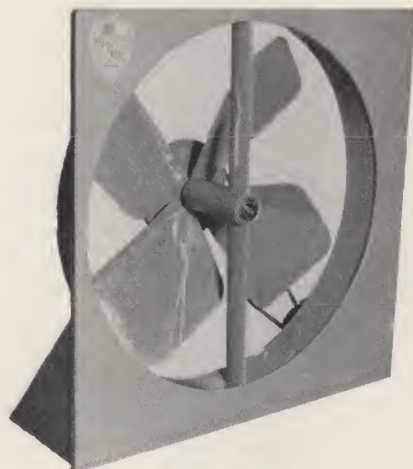
1—Low first cost.

2—Unit assembly for low attics.

3—6-Blade pressed steel blades.

4—Rubber mounted bronsoil bearings, with large oil reservoir. Interchangeable with ballbearings.

5—Round or square mounting frames.



MODEL X-55

Also in Steel Case
Model W-3 for Window Mounting

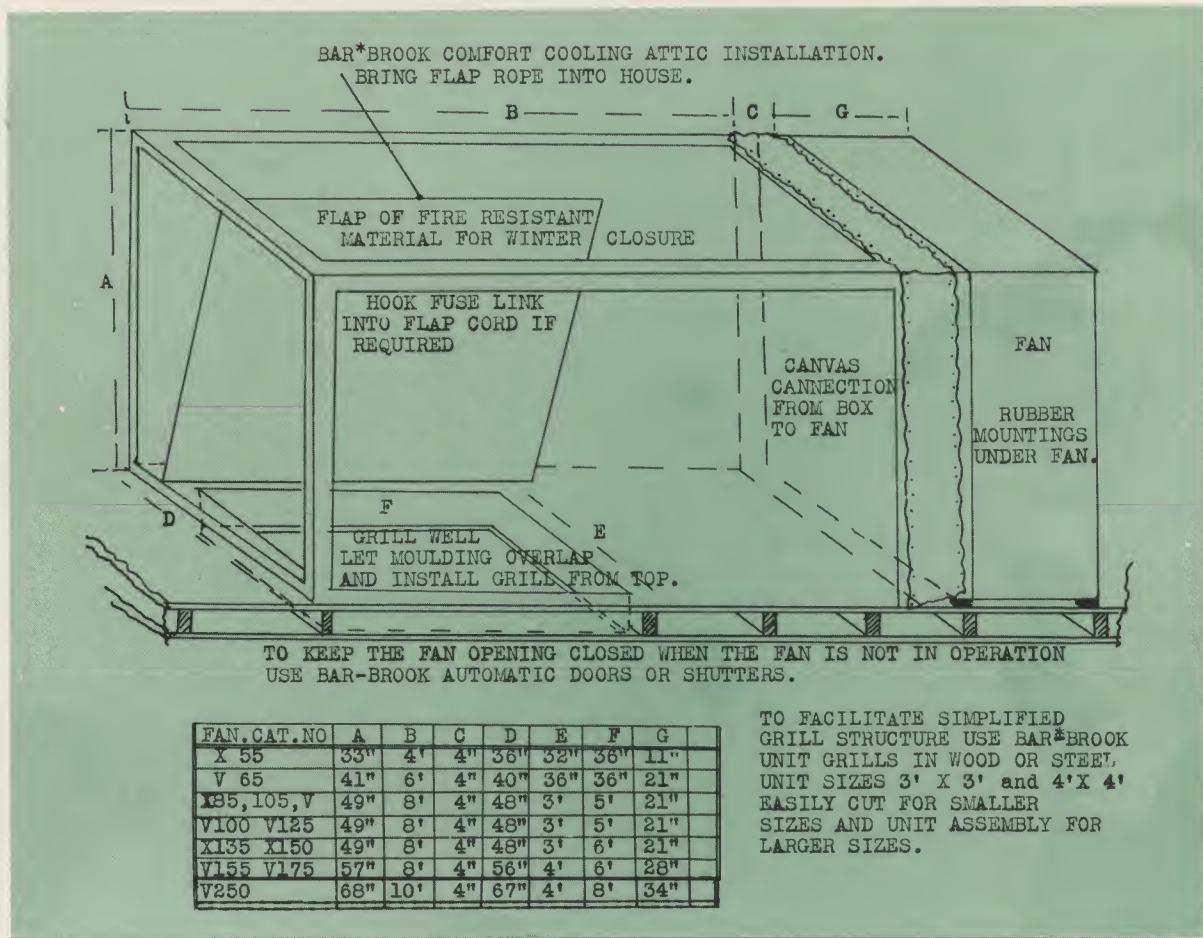
Model No.	Capacity CFM	H. P.	RPM	Shipping Weight	Mounting Dimensions		
					Height	Width	Depth
X-55	5500	1/4	465	65 pounds	33"	33"	11"
X-85	8500	1/4	295	140 pounds	47 1/4"	47 1/4"	21"
X-105	10500	1/3	375	150 pounds	47 1/4"	47 1/4"	21"
X-135	13500	1/4	245	165 pounds	55 1/4"	55 1/4"	28"
X-150	15000	1/3	295	175 pounds	55 1/4"	55 1/4"	28"

Package units available for models 55, 85 and 105.

GUARANTEED ONE YEAR



RECOMMENDED METHOD FOR INSTALLING BAR-BROOK VENTILATORS



SIZE AND MODEL UNIT FOR PROPER COMFORT COOLING.

First step off or measure the outside dimensions of the house. Then taking the length times the width times the ceiling height, the total cubical contents of the house is arrived at. Then use a Bar-Brook fan of equal capacity to this cubical content capacity which will provide an air change of slightly better than once every minute. In the case of a two-story house figure each floor separately by the same method. Then if it is possible to partially close the upstairs from the downstairs an air change of once every minute and one half may be used satisfactorily.

LOCATION OF UNIT

The fan should always be located as near to the center of the house as possible to provide equal distribution and control. Generally a centrally located hall is available.

INLET GRILLS

The ceiling inlet grill should be of a size according to the above specifications, using Bar-Brook unit grills to the desired size. In case the recommended grill size cannot be used, simply be sure the total square footage is approximately the same. If grill velocities of over 750 ft. per minute are used the noise level will be objectionable.

EXHAUST OPENINGS IN ATTIC TO OUTSIDE

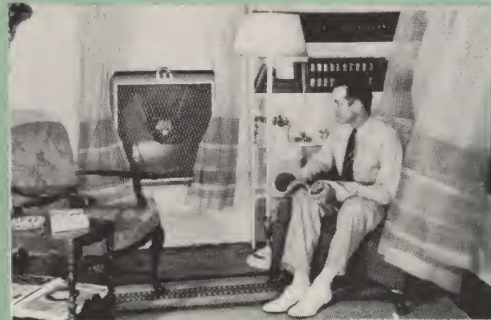
This is very important and the total exhaust opening should amount to one and one-half times the inlet opening. A larger amount of opening will not hinder the operation. These openings may be obtained in several ways. 1. By opening the eaves. 2. Opening windows available in attic. 3. Providing louvers in the side walls of the attic. 4. Porch vents in the porch ceilings. 5. Dormer windows.

Always be sure openings are properly weatherproofed and in cold climates provided with winter closure flaps.



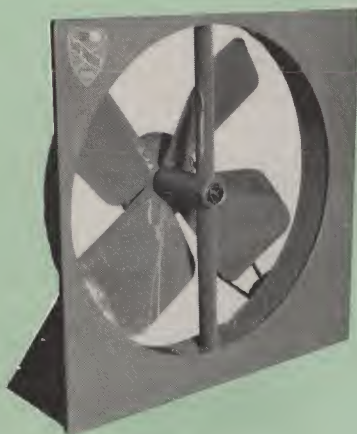
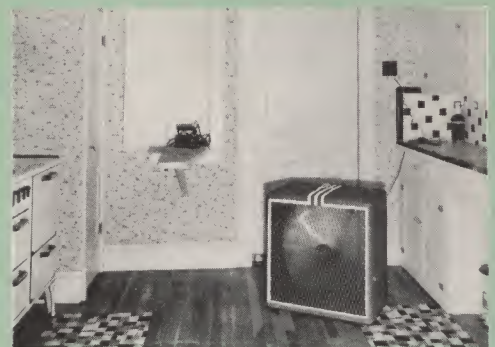
WINDOW-VENTILATION

Compact units that embody all the features and benefits of the Attic Ventilator, with the added feature of being portable. Instantly installed in any window and plugged in to a convenient electric outlet without installation cost.



For General Utility W-41 and WT-41

27"x26"x17" deep. Capacity, 4100 CFM; weight, 60 pounds; steel case, grills front and rear; finish, brown baked enamel, aluminum trim; direct drive, fully enclosed motor; complete, with carrying handle, window clamp, cord and plug.



W-55, Without Case

Model W-55

Overall dimension 33"x33"x11"; weight, 50 pounds; capacity, 5500 CFM; steel case grill, rear only; finished in brown baked enamel; belt-drive, 29"; fan, 430 RPM. Complete with cord and plug.



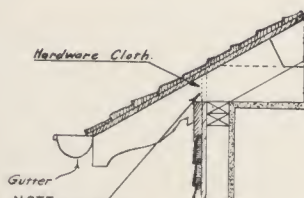
W-55, Demountable Case

IF YOU MOVE-YOUR WINDOW-VENT INVESTMENT MOVES TOO!

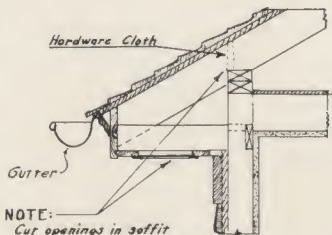


DESIGN DATA FOR BAR-BROOK COMFORT COOLING

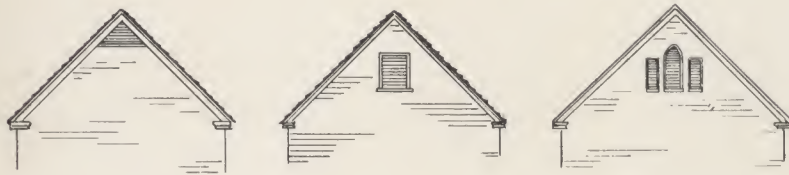
Details of Louver Construction



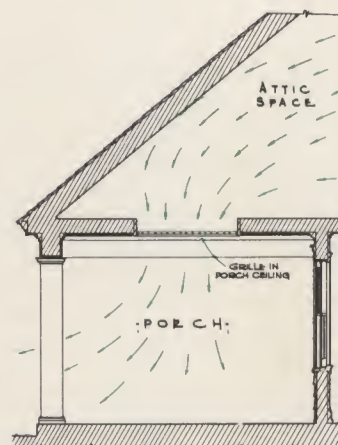
NOTE:
Cut openings into Attic
Space between rafters.
Openings should be
closed to winter.



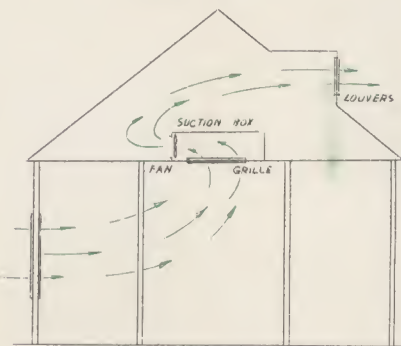
NOTE:
Cut openings in soffit
at cornice. Openings
should be screened
and closed to winter
weather.



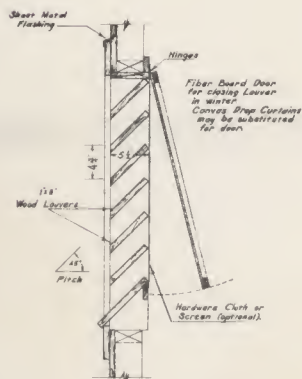
Typical Designs of Louver Construction



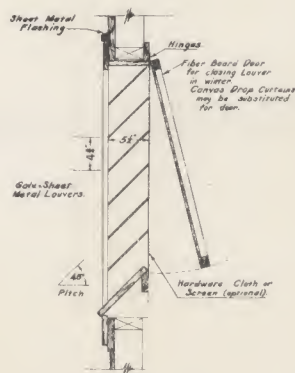
PORCH VENT



Always reverse fan discharge from predominant opening to assure cleaning attic space.

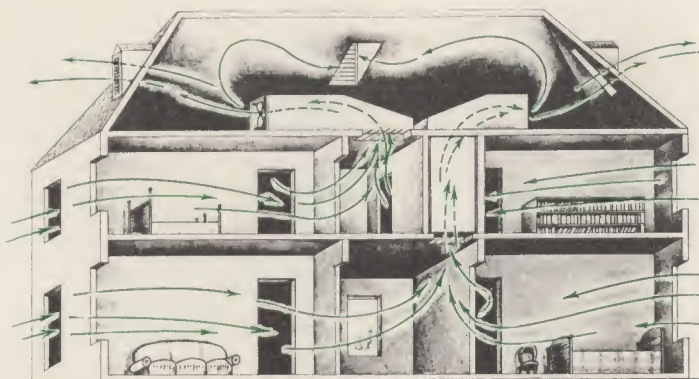


Section Through
Wood Louver



Section Through
Sheet Metal Louver

Bar-Brook Suction Box type, comfort cooling, installations should always be equipped with Bar-Brook Automatic doors, Louvers or some type flap arrangement for winter closure.



Showing method of installing fans for upper and lower apartment use Bar-Brook automatic doors.



BAR-BROOK AIR CIRCULATORS AND EXHAUST FANS

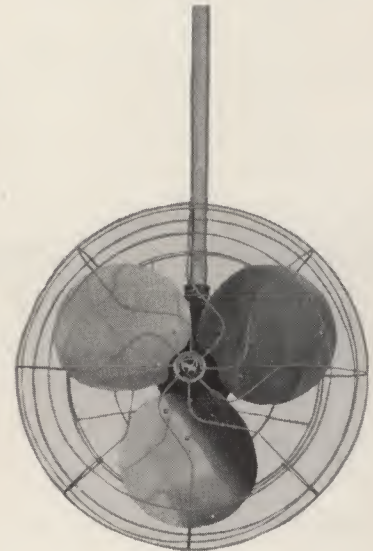


Pedestal Model
C-224 on C-57—Pedestal

Super Quiet, Wide Area
Blades and Slow Speed
Motors—

Beautifully finished in tan,
wrinkle chrome and aluminum.
All circulators equipped with
plug connection. Pedestals have
15 ft. cord and plug.

Shipped knocked down.



Ceiling Model
C-124 or C-H Ceiling Fitting

Easily Mounted, 24" Exhaust Fan

Years of research have developed
quietness in air circulators econom-
ically priced in any type of mount-
ing.



E-41 ET-41

Easily mounted, square plate, 24" ex-
haust fans, one or 2-speeds, fully en-
closed motors—super quiet.

Capacity—

CFM high	4100
CFM low	2900

Plate—26" square, 11" deep.

GUARANTEED TWO YEARS



BAR-BROOK ATTIC VENTILATION ACCESSORIES

Time Switches—

Set the fan to come on or turn off automatically at any predetermined time. Fits standard wall-switch box.

Grills for the ceiling inlet.

Wood grills made of white pine 1 1/4" deep, on 3" center squares. Unit assembly sizes, 3'x3' and 4'x4'. Steel grills of 3/4" mesh, 16-gauge, shelf X in unit sizes 3'x3' by 4'x4'.

Automatic Doors made of tempered hard board masonite, to automatically open when fan is turned on and close when fan is off. This keeps the fan box closed when fan is not running and eliminates the necessity of a flap. It also keeps flying insects from entering the house. Round type eliminates flutter and adjustable spring tension for various closing pressures.

Automatic Shutters—Weatherproof aluminum vane shutters, automatically open when fan is turned on.

Two-Speed Motors—One available for all models.

Reversing Switch for reversing direction of fan. Model V fans delivers 85 per cent of rated capacity and model X about 80 per cent.

Package Units for models X55, X85, X10J, V-100, V125, D100 and D125.

Fan Grills for front and rear of models D100 and D125.

Wall Switches

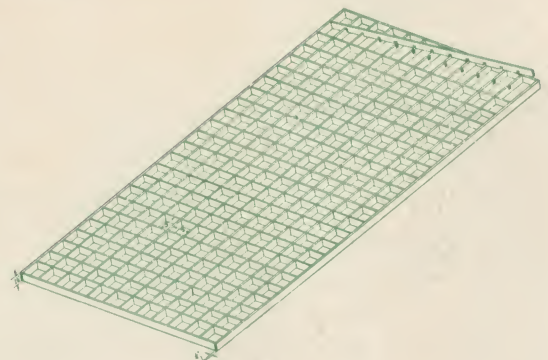
5 HR and 10 HR



Approved by Underwriters



STEEL GRILL



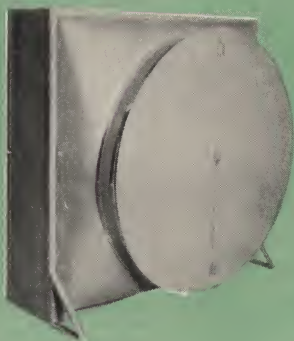
WOOD GRILL



CLOSED

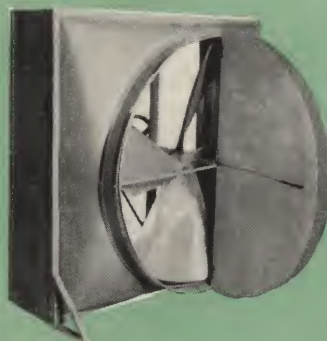


OPEN

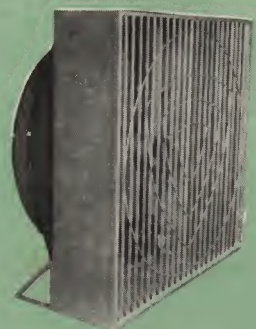


CLOSED

Automatic Doors

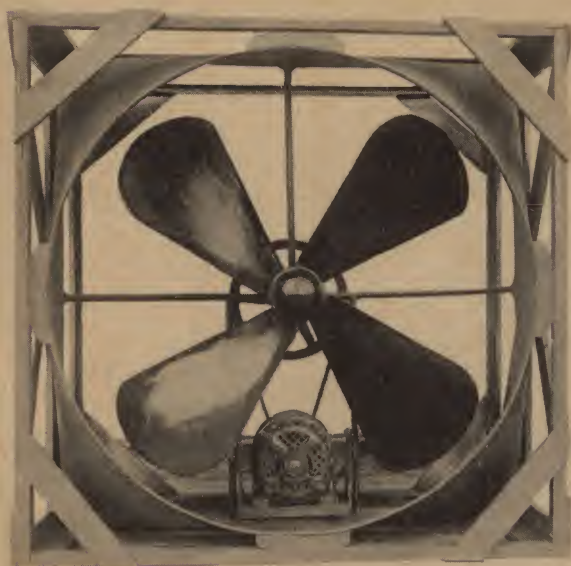
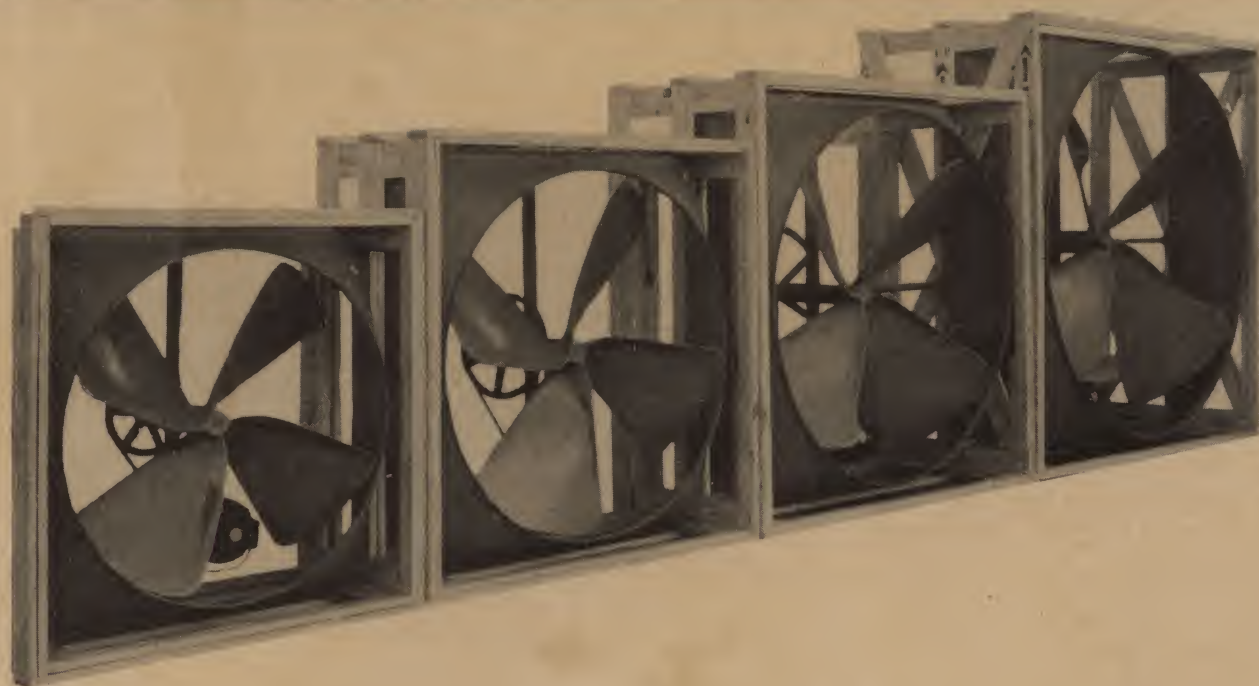


OPEN

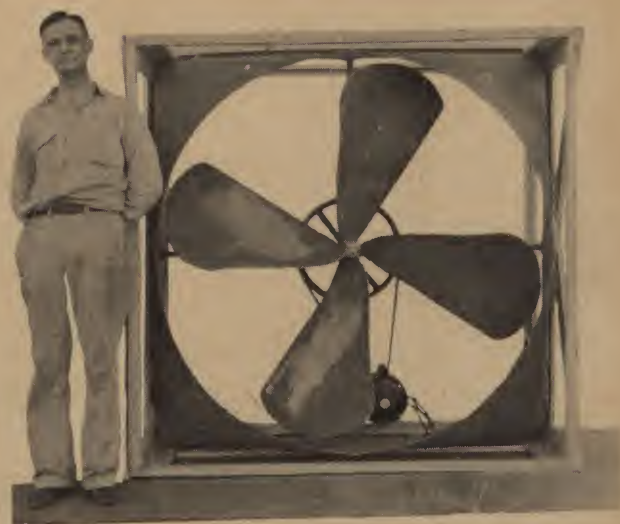


Fan Grills

BAR-BROOK VENTILATING EQUIPMENT IS MANUFACTURED IN A LARGE VARIETY OF SIZES AND CAPACITIES



Through
years of
experience
Bar-Brook has
come in contact
and successfully
installed ventilating
fans in hundreds of
applications in
comfort.
Cooling from chicken
coop ventilation to
churches.



Write Us For Your
Special Ventilating Jobs
Free Engineering Service



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